

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) ~~A device for filtering data, wherein the data is formatted in a packet having discrete segments, the device-~~ An apparatus comprising:

a storage device configured to store control logic;

a mapping module that contains processor configured to execute the control logic for ~~to performing steps-~~ perform a method comprising:

(a) receiving an identification of at least two clusters of ~~the discrete~~ segments of data within a packet; and

(b) processing the identification to selecting ~~select~~ at least two fixed length filters from a plurality of fixed length filters to filter the at least two clusters, wherein each of the selected at least two fixed length filters has an offset value corresponding to a beginning of one of the at least two clusters.

2. (Currently Amended) The device ~~apparatus~~ of claim 1, wherein the plurality of fixed length filters have a common length.

3. (Currently Amended) The device ~~apparatus~~ of claim 2, wherein each of the plurality of fixed length filters is 2 bytes.

4. (Currently Amended) The device ~~apparatus~~ of claim 1, wherein the plurality of fixed length filters is configured so that each of the plurality of fixed length filters has an offset value corresponding to one of the discrete segments of the packet.

5. (Currently Amended) The device ~~apparatus~~ of claim 4, wherein at least one of the plurality of fixed length filters has the offset value of 0.

6. (Currently Amended) The device ~~apparatus~~ of claim 1, wherein a first one of the at least two clusters of data is formatted in accordance with a first protocol and a second one of the at least two clusters of data is formatted in accordance with a second protocol different than the first protocol.

7. (Currently Amended) The ~~device-apparatus~~ of claim 1, further including a filter module ~~processor~~ comprising the plurality of fixed length filters.

8. (Currently Amended) The ~~device-apparatus~~ of claim 7, wherein the filter module ~~contains-processor is configured to execute~~ control logic for performing the steps to perform ~~comprising:~~

receiving the at least two clusters of the discrete segments of data; and
filtering the at least two clusters of the discrete segments of data with the selected at least two of a plurality of fixed length filters.

9. (Currently Amended) The ~~device-apparatus~~ of claim 1, wherein (a) comprises:
receiving an identification of a protocol of the data and a value.

10. (Currently Amended) The ~~device-apparatus~~ of claim 9, wherein the protocol comprises DVB-T and the value comprises an IP address.

11. (Currently Amended) The ~~device-apparatus~~ of claim 9, wherein the mapping-module ~~processor contains- is configured to execute~~ further control logic for performing the step of to perform:

mapping the identification of the protocol of the data and the value to the at least two clusters of the discrete segments of data.

12. (Currently Amended) A method of ~~generating a map for use by a filter module to filter clusters of data found in a packet of data, the method comprising the steps of:~~

(a) receiving the an identification of at least two clusters of the discrete segments of data within a packet; and
(b) processing the identification to selecting-select at least two of a plurality of fixed length filters to filter the at least two clusters.

13. (Currently Amended) The method of claim 12, further comprising ~~the step of:~~

(c) generating a filter mask that identifies segments of the selected at least two of a plurality of fixed length filters.

14. (Currently Amended) The method of claim 13, further comprising ~~the step of:~~

(d) providing filter values.

15. (Currently Amended) The method of claim 13, further comprising ~~the step of:~~
(d) generating at least one rule for combining data filtered by the at least two of a plurality of fixed length filters.
16. (Currently Amended) The method of claim 12, further comprising ~~the step of:~~
(c) selecting offset values for the at least two of the plurality of fixed length filters.
17. (Original) The method of claim 12, wherein a first one of the at least two clusters of data is formatted in accordance with a first protocol and a second one of the at least two clusters of data is formatted in accordance with a second protocol different than the first protocol.
18. (Currently Amended) A computer-readable medium containing computer-executable instructions, that when executed by a processor, cause for causing a mapping module the processor to generate a map for use by a filter module to filter clusters of data found in a packet of data, the computer-executable instructions cause the mapping module to perform the steps a method comprising:
(a) receiving the an identification of at least two clusters of the discrete segments of data within a packet; and
(b) processing the identification to selecting-select at least two of a plurality of fixed length filters to filter the at least two clusters.
19. (Currently Amended) The computer-readable medium of claim 18, further including computer-executable instructions for causing configured to cause the mapping module-processor to perform the step of:
(c) generating a filter mask that identifies segments of the selected at least two of a plurality of fixed length filters.
20. (Currently Amended) The computer-readable medium of claim 19, further including computer-executable instructions for causing configured to cause the mapping module-processor to perform the step of:
(d) providing filter values.

21. (Currently Amended) The computer-readable of claim 19, further including computer-executable instructions ~~for causing~~ configured to cause the ~~mapping module~~ processor to perform the step of:

(d) generating at least one rule for combining data filtered by the at least two of a plurality of fixed length filters.

22. (Currently Amended) The computer-readable of claim 18, further including computer-executable instructions ~~for causing~~ configured to cause the ~~mapping module~~ processor to perform the step of:

(c) selecting offset values for the selected at least two of the plurality of fixed length filters.

23. (Currently Amended) A method ~~of generating a map for use by a filter module to filter clusters of data found in a packet of data, the method comprising the steps of:~~

(a) receiving identification of a first cluster of discrete data in a first segment of a packet and a second cluster of discrete data in a second segment of the packet;

(b) processing the identification of the first cluster of discrete data to selecting select a first fixed length filter having a ~~an~~ offset value corresponding to the first cluster from a plurality of fixed length filters to filter the first cluster of discrete data;

(c) processing the identification of the second cluster of discrete data to selecting select a second fixed length filter having a ~~an~~ offset value corresponding to the second cluster from the plurality of fixed length filters to filter the second cluster of discrete data; and

(d) providing a cluster map including the first and second fixed length filters.

24. (Previously Presented) The method of claim 23, wherein the cluster map includes the offset value of the first and second fixed length filters.

25. (Previously Presented) The method of claim 23, wherein none of the plurality of fixed length filters overlap.

26. (Previously Presented) The method of claim 23, wherein all the plurality of fixed length filters overlap.